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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/764,207	01/19/2001	Ming-Yi Lay	0941-0213P-SP	7484
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INTELLECTUAL PROPERTY SOLUTIONS, INCORPORATED			EXAMINER	
	COLFAX AVENUE ANDRIA, VA 22311		WILCZEWSKI, MARY A	
			ART UNIT	PAPER NUMBER
			2822	
			DATE MAILED: 06/06/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. OB/Feb. 207 LAY ET AL Examiner Art Unit 2822 AT Unit 2822 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREHEREMONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. 1 the standard of time may be available under the province of 37 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed if the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed in the province of 37 CPR 1.36(d). In row word, however, may a reply be timely filed in the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed in the contraction is the healing date of the score of the province of 13 CPR 1.36(d). In row word, however, may a reply be timely filed in the contraction is the nealing date of the score of the province of 13 CPR 1.36(d). In row word, he had be considered limely. 1 the province of the province of 13 CPR 1.36(d) in row word, however, may a reply be timely filed in the contraction. An application is the contraction of 13 CPR 1.36(d) and will apply and the gradient of the province of 13 CPR 1.36(d). The province of 13 CPR 1.36(d) and 13 cPR 1.36(d). The province of 13 CPR 1.36(d) and 13 cPR 1.36(d). The province of 13 CPR 1.36(d) and 13 cPR 1.36(d). The province of 13 CPR 1.36(d) and 13 cPR 1.36(d). The province of 13 CPR 1.36(d) and 13 cPR 1.36(d). The province of 13 cPR 1.36(d) and 13 cPR 1.36(d). The province of 13 cPR 1.36(d) and 13 cPR 1.36(d). The province of 13 cPR 1.36(d). The province of 13 cPR 1.36(d). The proposed						
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are objected to. 8) Claim(s) 1-19 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 19 January 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 5) Notice of References Cited (PTO-892) 5) Notice of Informal Patent Application (PTO-152)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal				

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DETAILED ACTION

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, drawn to a structure comprising a plurality of metal bumps for connecting a non-conducting substrate and a chip, classified in class 257, subclass 678+.
- II. Claims 11-19, drawn to a method of forming a plurality of metal bumps, classified in class 438, subclass 613.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the Group I invention would not imply unpatentability of the Group II invention, since the structure of the Group I invention could be made by processes materially different than those of the Group II invention, for example, the metal layer could be selectively deposited on the metal pad thereby eliminating the need to deposit a photoresist layer and etch the layer to form a hole over the metal pad.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

If Applicants elect the invention of Group II, Method claims 11-19 are further restrictable as follows:

This application contains claims directed to the following patentably distinct species of the claimed invention: a first species of the claimed invention drawn to a method of forming a plurality of metal bumps by the method recited in claims 11-15 and depicted in Figures 4A-4F and a second species of the claimed invention drawn to a method of forming a plurality of metal bumps by the method recited in claims 16-19 and depicted in Figures 5A-5F.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations

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of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Drawings

The drawings filed on January 19, 2001, are acceptable.

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Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Taiwan on August 29, 2000. It is noted, however, that applicant has not filed a certified copy of the Taiwanese application as required by 35 U.S.C. 119(b).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Wilczewski whose telephone number is (703) 308-2771.

M. Wilczewski Primary Examiner Page 5

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